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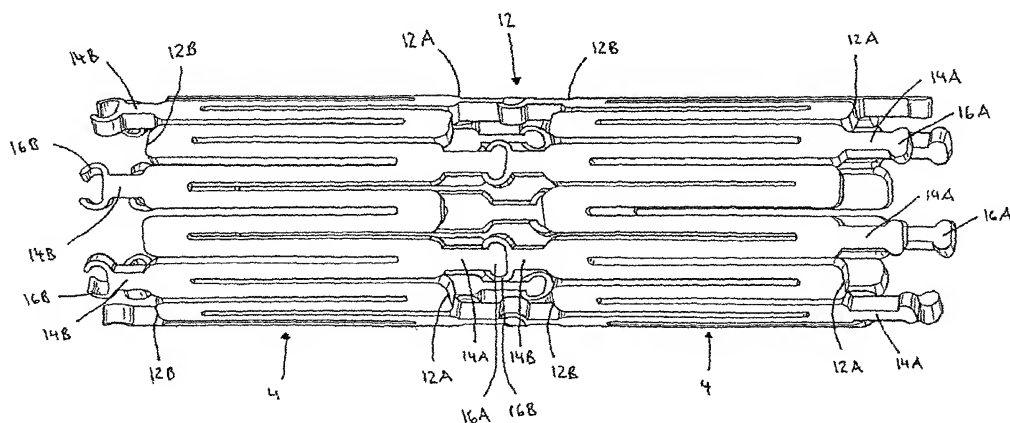
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4 March 2004

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: MRI COMPATIBLE STENT AND METHOD OF MANUFACTURING THE SAME



(57) Abstract: The present invention relates to expandable metal stents (2) having an abluminal wall, a luminal wall and a radial wall thick therebetween, with struts (3) defining through-apertures in the wall, the stent further having a longitudinal axis and defining a plurality of expansible rings (4) arranged adjacent one another along the longitudinal axis of the stent, each of the rings defining at least one bridge strut (14A, 14B), and adjacent rings being linked by a bridge (12) extending between adjacent bridge struts on adjacent rings, the stent being characterised in that the bridges (12) exhibit reduced electrical conductivity throughout the wall thickness, and there are a plurality of said bridges, distributed throughout the length of the stent and configured and arranged to divide the tubular structure into axially spaced and electrically insulated sections. The present invention relates furthermore to a method of manufacturing such a stent.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/02708

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61F2/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 01 01888 A (SCIMED LIFE SYSTEMS INC) 11 January 2001 (2001-01-11) page 2, line 13 - page 5, line 9 figures 5,6 -----	1,12-17, 19 2-6,18
P,X P,Y	WO 02 053066 A (ADVANCED CARDIOVASCULAR SYSTEM) 11 July 2002 (2002-07-11) page 10, line 7 - page 12, line 23 figures 7,8,11,12 -----	1-4,6,7, 14-19 5,6
Y	WO 00 15151 A (ISOSTENT INC) 23 March 2000 (2000-03-23) page 8, line 27 - page 10, line 13 page 11, line 18 - line 31 figures 5,6 ----- -/-	2-6,18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

5 August 2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/02708

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 741 327 A (FRANTZEN JOHN J) 21 April 1998 (1998-04-21) column 8, line 18 - column 11, line 38 figures 7-19	2-6,18
P,A	----- US 2002/188345 A1 (PACETTI STEPHEN DIRK) 12 December 2002 (2002-12-12) the whole document -----	1-19

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 03/02708

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 24
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Diagnostic method practised on the human or animal body
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-19

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19

A tubular radially expandable metal structure comprising a plurality of expansible rings arranged adjacent one another, and adjacent rings being linked by at least one bridge, whereby said bridge exhibits reduced electrical conductivity.

2. claims: 20-23

A method of manufacturing a tubular radially expandable metal structure comprising a plurality of expansible rings arranged adjacent one another, and adjacent rings being linked by at least one bridge, whereby said bridge exhibits reduced electrical conductivity.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 24

Rule 39.1(iv) PCT - Diagnostic method practised on the human or animal
body Rule 39.1(iv) PCT - Method for treatment of the human or animal
body by surgery

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/02708

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